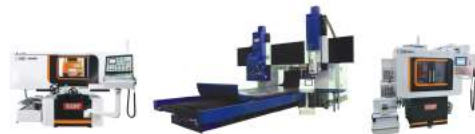


## 25 SERIES

SPECIFICATION	Unit	KMV-4225	KMV-5225	KMV-6225
Table	Table size	mm 4000 x 2400	3000 x 2400	1000 x 2400
	Table height	mm 850	800	800
	Table surface (T slot)	20 x 300 x 11 + 20 x 150 x 8	22 x 300 x 11 + 22 x 150 x 8	20 x 200 x 11 + 20 x 100 x 2
	Table load capacity	kg 15000	16000	20000
Travel	X axis	mm 4200	3300	4200
	Y axis	mm 2700	2700	2700
	Z axis	mm 800	800	800
	Table surface to spindle nose	mm 130 - 1050	130 - 1050	130 - 1050
Spindle	Between Column	mm 2700	2700	2700
	Spindle taper	NO.30 (T04)	NO.30 (T04)	NO.30 (T04)
	Max. spindle speed	r/min 4000	4000	4000
	Spindle output (30-T04)	kg 18.5/22	18.5/22	18.5/22
	Spindle torque (30-T04)	Nm 118	118	118
	Spindle transmission	gear	gear	gear
Motor	Motor output X	kW 5.5+Reducer (4)	5.5+Reducer (4)	5.5+Reducer (4)
	Motor output Y	kW 5.5	5.5	5.5
	Motor output Z	kW 5.5	5.5	5.5
	Tail shaft type	BT50	BT50	BT50
Tooling	Tool selector	B-direction	B-direction	B-direction
	Magnetic positions	32	32	32
	Max. tool diameter	mm φ125	φ125	φ125
	Max. tool length	mm φ125 x L300	φ125 x L300	φ125 x L300
Feedrate	Max. tool weight	kg 15	15	15
	Rapid traverse X/Y/Z	m/min 10/12/12	10/12/12	10/12/12
	Cutting feedrate X/Y/Z	m/min 1-10000	1-10000	1-10000
	Accuracy	mm ±0.005/300	±0.005/300	±0.005/300
Repeatability	Repeatability X, Y, Z	mm ±0.005/300	±0.005/300	±0.005/300
	VIS 3441	mm 0.02/1000	0.02/1000	0.02/1000
	Pump flow rate	l/min 25	25	25
	Hydraulic unit	Pump / System pressure	bar 45	45
Tank capacity		litre 10	10	10
Pump flow rate		l/min 300	300	300
Lubrication unit		Pump pressure	bar 10-15	10-15
	Tank capacity	litre 8	8	8
	Lubricant	G-46	G-46	G-46
	Coolant system	Pump motor output	kW 0.91	0.91
Tank capacity		litre 500	500	300
Height		mm 4000	4017	4017
Machine size		Floor space L x W	mm 10700 x 18304	12740 x 8004
	Weight	kg 46000	31000	28000
	CHC		FAKUC/MTSU/BSH-K	
Connections	Main power	kW 40	40	40
	Power consumption	kVA 40	40	40

REMARK: The data listed above are only for reference, and the manufacturer reserves the right to change the machine design, mechanical specifications and mechanical structure.

## OTHER PRODUCTS



K25-300M1  
Precision Surface Grinder

K2P-2045  
Double Column Surface Grinder

K2R-600  
Rotary Surface Grinder



Head office (Taiwan)  
Area: 1,700m<sup>2</sup>



Dou Liu Factory (Taiwan)  
Area: 18,700m<sup>2</sup>



Zhejiang Rongde  
Machinery Co., Ltd.  
Area: 22,000m<sup>2</sup>

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Tel: 809-959-9100 Fax: 809-389-6678

**KENT** KENT INDUSTRIAL CO., LTD.  
SINCE 1966...



## DOUBLE COLUMN CNC MACHINING CENTER



2017.07.18.02

www.kentind.com

## 20 SERIES

SPECIFICATION	Unit	KMV-22P	KMV-32P	KMV-42P	KMV-52P
Table	Table size	mm 3000 x 1600	3000 x 1600	4000 x 1600	5000 x 1600
	Table height	mm 850	800	800	800
	Table surface (T slot)	22 x 170 x 8	20 x 170 x 8	20 x 170 x 8	22 x 170 x 8
	Table load capacity	kg 6000	6000	6000	10000
Travel	X axis	mm 2500	2500	4200	5000
	Y axis	mm 2000	2000	2000	2000
	Z axis	mm 900	900	900	900
	Table surface to spindle nose	mm 40 - 940	40 - 940	40 - 940	40 - 940
Spindle	Between Column	mm 2070	2070	2070	2070
	Spindle taper	NO.30 (T04)	NO.30 (T04)	NO.30 (T04)	NO.30 (T04)
	Max. spindle speed	r/min 4000	4000	4000	4000
	Spindle output (30-T04)	kg 18.5/22	18.5/22	18.5/22	18.5/22
	Spindle torque (30-T04)	Nm 118	118	118	118
	Spindle transmission	gear	gear	gear	gear
Motor	Motor output X	kW 4.5+Reducer (4)	4.5+Reducer (4)	4.5+Reducer (4)	4.5+Reducer (4)
	Motor output Y	kW 5.5	5.5	5.5	5.5
	Motor output Z	kW 5.5	5.5	5.5	5.5
	Tail shaft type	BT50	BT50	BT50	BT50
Tooling	Tool selector	B-direction	B-direction	B-direction	B-direction
	Magnetic positions	32	32	32	32
	Max. tool diameter	mm φ125	φ125	φ125	φ125
	Max. tool length	mm φ125 x L300	φ125 x L300	φ125 x L300	φ125 x L300
Feedrate	Max. tool weight	kg 15	15	15	15
	Rapid traverse X/Y/Z	m/min 10/12/12	10/12/12	10/12/12	10/12/12
	Cutting feedrate X/Y/Z	m/min 1-10000	1-10000	1-10000	1-10000
	Accuracy	mm ±0.005/300	±0.005/300	±0.005/300	±0.005/300
Repeatability	Repeatability X, Y, Z	mm ±0.005/300	±0.005/300	±0.005/300	±0.005/300
	VIS 3441	mm 0.02/1000	0.02/1000	0.02/1000	0.02/1000
	Pump flow rate	l/min 25	25	25	25
	Hydraulic unit	Pump / System pressure	bar 45	45	45
Tank capacity		litre 10	10	10	10
Pump flow rate		l/min 300	300	300	300
Lubrication unit		Pump pressure	bar 10-15	10-15	10-15
	Tank capacity	litre 8	8	8	8
	Lubricant	G-46	G-46	G-46	G-46
	Coolant system	Pump motor output	kW 0.91	0.91	0.91
Tank capacity		litre 500	300	300	300
Height		mm 4001	4001	4001	4010
Machine size		Floor space L x W	mm 6300 x 4330	6450 x 4330	10440x4030
	Weight	kg 32900	37300	43000	44000
	CHC			FAKUC / MTSU/BSH-K	
Connections	Main power	kVA 40	40	40	40
	Power consumption	kVA 40	40	40	40

REMARK: The data listed above are only for reference, and the manufacturer reserves the right to change the machine design, mechanical specifications and mechanical structure.



## DOUBLE COLUMN MACHINING CENTER



• 20 SERIES KMV-22P  
Fully enclosed splash guard (opt.)



• 25 SERIES KMV-22S  
Fully enclosed splash guard (opt.)

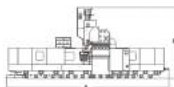
### LAYOUT

	KMV-22P	KMV-22S	KMV-42C	KMV-42P
A	2200	2452	10443	12400
B	4501	4801	4831	4581
C	4330	4200	4330	4330



### LAYOUT

	KMV-42S	KMV-522S	KMV-622S
A	16750	12745	14745
B	4930	4917	4917
C	3234	3234	3234



## FEATURES

**SIZE AVAILABLE FROM**  
2200 x 1650mm up to  
6000 x 2450mm

### Box Way Structure at the Z Axis

The Z axis is built with tough cast iron box way construction. Meticulously designed for heavy duty machining with FEA integrated in design, the structure is cast of premium materials reinforced with rugged internal rib support.



### Highly Rigid Spindle Nose

Distance from spindle nose to Z axis slide way is 267mm for 20 series and 304mm for 25 series. Its short distance design is excellent to reduce the bending and torsion effects induced by head weight and cutting forces.

### Wide Span Ladder Type Cross Beam at the Y axis

Ultra wide ladder type cross beam with dual linear guide ways can handle increased inertia. This design ensures rigidity of the spindle, especially during heavy duty cutting, the nose remains perfectly stable.

### Heavy Load LM Linear Guides



Both X and Y axis are equipped with high precision heavy duty LM guide ways for better movement resolution and easier precision control during machining mid or large size work piece.

### Ergonomic Controls

The control panel positioning is adjustable so that operators get the most advantageous viewpoint throughout various stages of processing. This facilitates any necessary adjustments and guarantees exact results.

### Nitro-Balance

The head stock is counter balanced with nitrogen in conjunction with dual pneumatic cylinders. A universal joint installed on each cylinder ensure smooth movement. Even in case of a sudden power failure, the head maintains exact positioning to preserve the tool life and keep the workpiece undamaged. The Hydraulic counterbalance can be offered as an option.

### Dual Section ZF Gear box

The dual speed spindle adopts German ZF gear box, which is efficient with characteristics of high torque, low noise, and long service life. Fully sealed immersion type lubrication with oil filter to keep the machine running cool even at 10,000 rpm.

### Spindle Unit



Coolant system protects against heat distortion during heavy cutting at high speeds.



CT6 (opt.)

### High rigidity casting

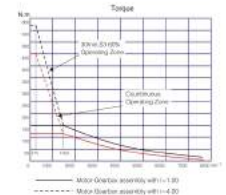
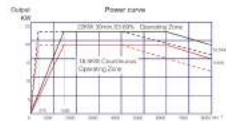
The machine base, columns, cross beam, work table, slide ways, head and all castings are made of top grade cast iron and subjected to annealing to eliminate internal stresses and prevent deformation. This provides rigidity throughout the machine with excellent resistance against all machining forces.

## DOUBLE COLUMN MACHINING CENTER



### SPINDLE MOTOR HORSEPOWER AND TORQUE CHART

Type: α18/7000



### STANDARD ACCESSORIES

- 1 Fanuc 0-MF (if Color-Monitor)
- 2 Spindle speed BT50-4000 rpm
- 3 Oil chiller for 3 axes and spindle
- 4 Z.F. Dual section gear box
- 5 Splash guard
- 6 Convection heat exchange electrical box
- 7 Separate hand wheels (MFG)
- 8 RS-232C interface
- 9 Rigid tapping
- 10 Working light
- 11 Process cycle pick light
- 12 Coolant system
- 13 Transformer
- 14 Dual screw type chip conveyer - chain type chip conveyer
- 15 Tools and tool box
- 16 Adjustable base leveling pads
- 17 Operation manual and electrical diagrams
- 18 Air blower

### OPTIONS

- 1 A50 6000 rpm spindle(Belt type)
- 2 #40 8000, 12000 rpm spindle(Belt type)
- 3 CTS (Coolant through spindle) 6 bar, 20 bar, 30 bar
- 4 Arm type tool magazine(20/30 tools) with ATC
- 5 Universal milling head
- 6 90 degree milling head
- 7 Extended head 300mm
- 8 3-axis linear scales
- 9 Riser block 200 or 400mm
- 10 Fully enclosed splash guard

### LUBRICATION

Precision scraped Lube wear resistant plates provide an even film of lubricant on all contact surfaces which eliminates both drilling at high speed traverse and sluggish oil feed acceleration.



### OIL CHILLER

The spindle and ball screws at all three axes are cooled by recirculation of which passes through an oil chiller, dispelling heat deformation, extending the life of spindle bearings and guaranteeing accurate stability at each axis.



### OPTIONAL 90 DEGREE HEAD

Options for 5-axis milling: Manual 90-degree milling head and auto 90-degree milling head with indexation every 3 degree.

